November 29, 2012

Duke Energy
Miami Fort Generating Station
11021 Brower Road
North Bend, OH 45052

Attention: Ms. Tara Thomas
Environmental Coordinator

Re: Results – **November 2012**
Low-Level Mercury Sampling
Miami Fort Generating Station
North Bend, Ohio

In accordance with your request, URS prepared the following letter report transmitting low-level mercury test results for samples collected at the Miami Fort Generating Station located in North Bend, Ohio.

The scope of work involved the sampling of intake and discharge waters from the following sources and analysis of those samples for low-level mercury.

1. River Intake
2. Station 601 (WWT Influent)
   [Samples were collected at this station one detention time (approximately 14 hours as specified by Duke Energy) before samples collected at Outfall 608]
3. Outfall 608 (WWT Effluent)
   [Samples were collected at this outfall one detention time (approximately 14 hours as specified by Duke Energy) after samples collected at station 601]
4. Outfall 002 (Pond B Discharge)

Each sample was collected following the required Method 1669: *Sampling Ambient Water for Determination of Trace Metals at EPA Water Quality Criteria Levels* (Sampling Method) and analyzed by Method 1631. At the request of Duke Energy, a dissolved low-level mercury sample was collected by Method 1669 from Outfall 608 and analyzed by Method 1631. The collected dissolved sample was filtered at the laboratory utilizing 0.45 micron filtration. Also at the request of Duke Energy, total metal mercury sample aliquots (preserved) from Station 601 (Unit 7 and 8) were used to have the laboratory pipet off and prepare the supernatant layer of the samples (leaving behind as much of the settled solids as possible) for analysis by Method 7470A.

Field staff from URS' Cincinnati office conducted the sampling and TestAmerica Laboratories Inc. located in North Canton, Ohio performed the analytical procedures. The analytical procedures included the analyses of a collected sample and duplicate sample

URS Corporation
525 Vine Street, Suite 1800
Cincinnati, Ohio 45202
Tel: 513.651.3440
Fax: 1.877.660.7720 (toll free)

(duplicates collected at Outfall 608 and Outfall 002), field blank (field blanks collected at the River Intake, Outfall 608, and Outfall 002), and trip blank.

The results from the **November 5 and 6, 2012** sampling events are presented in the attached Table 1. A copy of the laboratory report is enclosed with this letter.

--ooOoo--

URS is pleased to provide continued assistance to Duke Energy in the execution of their environmental monitoring requirements. If there are any questions regarding the content of this report, please do not hesitate to contact the undersigned.

Sincerely,

URS Corporation

Michael A. Wagner
Project Manager

Dennis P. Connair, C.P.G.
Principal

MAW/DPC/Duke Energy-MFS LL Hg 2012
Job No. 14950516

TABLE 1

ANALYTICAL RESULTS
LOW-LEVEL MERCURY
RIVER INTAKE, STATION 601, OUTFALL 608, AND OUTFALL 002 (POND B)

DUKE ENERGY - MIAMI FORT STATION
NORTH BEND, OHIO

Sample ID	Date Sampled / Results (ng/L, parts per trillion)					
	1/3-4/2012	2/2-3/2012	3/1-2/2012	4/2-3/2012	5/1-2/2012	6/5-6/2012
River Intake	7.9	6.1	3.9	4.0	3.9	2.2
Station 601 (7)	360,000	100,000	1,300,000	85,000	590,000	180,000
Station 601 (7)*	570	6,000	54,000	68,000	110,000	670
Station 601 (7)* [duplicate]	200	Not Collected	55,000	66,000	110,000	Not Collected
Station 601 (8)	210,000	68,000	830,000	310,000	Off Line	140,000
Station 601 (8)*	420	5,300	110,000	75,000	Off Line	1,000
Station 601 (8)*[duplicate]	Not Collected	3,500	Not Collected	Not Collected	Off Line	880
Outfall 608	60	89	48	120	170	210
Outfall 608 [duplicate]	65	85	49	120	200	200
Outfall 608 [dissolved, 0.45 micron]	2.9	26	1.6 H	0.53 B	61	64
APB-002	3.2	3.7	2.9	4.8	4.2	2.7
APB-002 [duplicate]	3.3	3.5	3.6	4.6	4.0	2.5
Field Blank (RI-FB)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Field Blank (WWT-FB)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Field Blank (AP-FB)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trip Blank	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Samples collected by URS. Samples analyzed by TestAmerica of North Canton, Ohio.
Sampling times are noted within the associated laboratory report for each collected sample
* = Total mercury analysis utilizing Method 7470A [results converted from ug/L (parts per billion) to ng/L]. The aqueous layer of the sample was pipetted off and prepared, with care to leave behind as much of the settled solids as possible.
H = Sample was prepped or analyzed beyond the specified holding time B = Compound was found in blank and sample

TABLE 1 (continued)

Sample ID	Date Sampled / Results (ng/L, parts per trillion)					
	7/5-6/2012	8/1-2/2012	9/4-5/2012	10/1-2/2012	11/5-6/2012	12/x/2012
River Intake	1.6	1.6	1.1	2.5^	4.9	
Station 601 (7)	240,000	360,000	230,000	400,000	210,000	
Station 601 (7)*	8,100 B	1,200	2,000	21,000	720,000	
Station 601 (7)* [duplicate]	6,400 B	890	Not Collected	19,000	Not Collected	
Station 601 (8)	460,000	260,000	320,000	420,000	210,000	
Station 601 (8)*	10,000 B	<200	670	8,500	1,600	
Station 601 (8)*[duplicate]	Not Collected	Not Collected	380	Not Collected	1,600	
Outfall 608	240	78	9.5 / 49**	300	39	
Outfall 608 [duplicate]	220	82	10 / 46**	300	38	
Outfall 608 [dissolved, 0.45 micron]	29 H	19	7.5	6.6	3.2	
APB-002	2.5	2.1	3.8	2.4	6.4	
APB-002 [duplicate]	2.5	2.0	4.1	2.5	6.3	
Field Blank (RI-FB)	<0.50	<0.50	1.2	1.9^	<0.50	
Field Blank (WWT-FB)	<0.50	<0.50	<0.50 / <0.50**	<0.50	<0.50	
Field Blank (AP-FB)	<0.50	<0.50	<0.50	<0.50	<0.50	
Trip Blank	<0.50	<0.50	<0.50 / <0.50**	<0.50	<0.50	

Samples collected by URS Samples analyzed by TestAmerica of North Canton, Ohio

Sampling times are noted within the associated laboratory report for each collected sample.

* = Total mercury analysis utilizing Method 7470A [results converted from ug/L (parts per billion) to ng/L]. The aqueous layer of the sample was pipetted off and prepared, with care to leave behind as much of the settled solids as possible.

** = Outfall 608 re-sampled 9/30/2012 at request of Duke Energy. B = Compound was found in blank and sample

∧ = The closing CCB failed high: Instrument related QC exceeds the control limit.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-17101-1
Client Project/Site: Duke MF LLHg 2012 - J12110130
Revision: 1

For:
Duke Energy Corporation
139 East Fourth Street
Cincinnati, Ohio 45202

Attn: Ms. Sue Wallace

Denise Pohl

Authorized for release by:
11/23/2012 11:45:04 AM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-17101-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Duke Energy Corporation

Project: Duke MF LLHg 2012 - J12110130

Report Number: 240-17101-1

Revised

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

Revision 11-23-2012: Revision includes additional appearance information for sample 601(7)WWT TOT (240-17101-5).

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 11/03/2012; the samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was 14.2 C.

DISSOLVED LOW LEVEL MERCURY

Sample 608 WWT DISSOLVED (240-17101-11) was analyzed for dissolved low level mercury in accordance with EPA Method 1631E. The samples were prepared on 11/05/2012 and analyzed on 11/06/2012.

Sample 608 WWT DISSOLVED (240-17101-11)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the Low Level Mercury analysis.

All quality control parameters were within the acceptance limits.

Job ID: 240-17101-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

TOTAL MERCURY

Samples 601(8)WWT TOT (240-17101-2), 601(8)WWT TOT DUP (240-17101-3) and 601(7)WWT TOT (240-17101-5) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 11/07/2012 and 11/20/2012 and analyzed on 11/09/2012 and 11/21/2012.

Sample 601(7)WWT TOT (240-17101-5) had a a pale purple color and there was a slight odor to the sample that was different from other samples.

Sample 601(7)WWT TOT (240-17101-5)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method 7470A: Per client instructions, the aqueous layer of the sample was pipetted off and prepared for samples 601(7)WWT TOT, 601(8)WWT TOT and 601(8)WWT TOT DUP with care to leave behind as much of the settled solids as possible

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

LOW LEVEL MERCURY

Samples 601(8)WWT (240-17101-1), 601(7)WWT (240-17101-4), RI FB (240-17101-6), RI (240-17101-7), 608 WWT FB (240-17101-8), 608 WWT (240-17101-9), 608 WWT DUP (240-17101-10), OUTFALL 002 FB (240-17101-12), OUTFALL 002 (240-17101-13), OUTFALL 002 DUP (240-17101-14) and TRIP BLANK (240-17101-15) were analyzed for Low Level Mercury in accordance with EPA Method 1631E. The samples were prepared on 11/08/2012 and analyzed on 11/13/2012.

Mercury failed the recovery criteria low for the MS/MSD of sample OUTFALL 002MS/MSD (240-17101-13) in batch 240-64803.

Refer to the QC report for details.

Samples 601(8)WWT (240-17101-1)[200000X], 601(7)WWT (240-17101-4)[200000X], 608 WWT (240-17101-9)[10X] and 608 WWT DUP (240-17101-10)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Low Level Mercury analyses.

All other quality control parameters were within the acceptance limits.

Method Summary

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	TAL NC
7470A	Mercury (CVAA)	SW846	TAL NC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-17101-1	601(8)WWT	Water	11/01/12 17:40	11/03/12 08:45
240-17101-2	601(8)WWT TOT	Water	11/01/12 17:50	11/03/12 08:45
240-17101-3	601(8)WWT TOT DUP	Water	11/01/12 17:45	11/03/12 08:45
240-17101-4	601(7)WWT	Water	11/01/12 18:00	11/03/12 08:45
240-17101-5	601(7)WWT TOT	Water	11/01/12 18:05	11/03/12 08:45
240-17101-6	RI FB	Water	11/01/12 18:15	11/03/12 08:45
240-17101-7	RI	Water	11/01/12 18:20	11/03/12 08:45
240-17101-8	608 WWT FB	Water	11/02/12 08:25	11/03/12 08:45
240-17101-9	608 WWT	Water	11/02/12 08:30	11/03/12 08:45
240-17101-10	608 WWT DUP	Water	11/02/12 08:35	11/03/12 08:45
240-17101-11	608 WWT DISSOLVED	Water	11/02/12 08:40	11/03/12 08:45
240-17101-12	OUTFALL 002 FB	Water	11/02/12 09:25	11/03/12 08:45
240-17101-13	OUTFALL 002	Water	11/02/12 09:30	11/03/12 08:45
240-17101-14	OUTFALL 002 DUP	Water	11/02/12 09:35	11/03/12 08:45
240-17101-15	TRIP BLANK	Water	11/02/12 00:00	11/03/12 08:45

Detection Summary

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Client Sample ID: 601(8)WWT — Lab Sample ID: 240-17101-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	210000		100000		ng/L	200000		1631E	Total/NA

Client Sample ID: 601(8)WWT TOT — Lab Sample ID: 240-17101-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	1.6		0.20		ug/L	1		7470A	Total/NA

Client Sample ID: 601(8)WWT TOT DUP — Lab Sample ID: 240-17101-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	1.6		0.20		ug/L	1		7470A	Total/NA

Client Sample ID: 601(7)WWT — Lab Sample ID: 240-17101-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	210000		100000		ng/L	200000		1631E	Total/NA

Client Sample ID: 601(7)WWT TOT — Lab Sample ID: 240-17101-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	720		20		ug/L	100		7470A	Total/NA

Client Sample ID: RI FB — Lab Sample ID: 240-17101-6

No Detections

Client Sample ID: RI — Lab Sample ID: 240-17101-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	4.9		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: 608 WWT FB — Lab Sample ID: 240-17101-8

No Detections

Client Sample ID: 608 WWT — Lab Sample ID: 240-17101-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	39		5.0		ng/L	10		1631E	Total/NA

Client Sample ID: 608 WWT DUP — Lab Sample ID: 240-17101-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	38		5.0		ng/L	10		1631E	Total/NA

Client Sample ID: 608 WWT DISSOLVED — Lab Sample ID: 240-17101-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	3.2		1.0		ng/L	2		1631E	Dissolved

Detection Summary

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Client Sample ID: OUTFALL 002 FB — Lab Sample ID: 240-17101-12

No Detections

Client Sample ID: OUTFALL 002 — Lab Sample ID: 240-17101-13

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	6.4		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: OUTFALL 002 DUP — Lab Sample ID: 240-17101-14

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	6.3		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-17101-15

No Detections

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Client Sample ID: 601(8)WWT
Date Collected: 11/01/12 17:40
Date Received: 11/03/12 08:45

Lab Sample ID: 240-17101-1
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	210000		100000		ng/L		11/08/12 08:45	11/13/12 08:41	200000

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Client Sample ID: 601(8)WWT TOT
Date Collected: 11/01/12 17:50
Date Received: 11/03/12 08:45

Lab Sample ID: 240-17101-2
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.6		0.20		ug/L		11/07/12 14:35	11/09/12 10:42	1

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Client Sample ID: 601(8)WWT TOT DUP
Date Collected: 11/01/12 17:45
Date Received: 11/03/12 08:45

Lab Sample ID: 240-17101-3
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.6		0.20		ug/L		11/07/12 14:35	11/09/12 10:44	1

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Client Sample ID: 601(7)WWT
Date Collected: 11/01/12 18:00
Date Received: 11/03/12 08:45

Lab Sample ID: 240-17101-4
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	210000		100000		ng/L		11/08/12 08:45	11/13/12 08:46	200000

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Client Sample ID: 601(7)WWT TOT
Date Collected: 11/01/12 18:05
Date Received: 11/03/12 08:45

Lab Sample ID: 240-17101-5
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	720		20		ug/L		11/20/12 19:00	11/21/12 13:01	100

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Client Sample ID: RI FB
Date Collected: 11/01/12 18:15
Date Received: 11/03/12 08:45

Lab Sample ID: 240-17101-6
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		11/08/12 08:45	11/13/12 09:25	1

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Client Sample ID: RI
Date Collected: 11/01/12 18:20
Date Received: 11/03/12 08:45

Lab Sample ID: 240-17101-7
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.9		0.50		ng/L		11/08/12 08:45	11/13/12 09:37	1

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Client Sample ID: 608 WWT FB
Date Collected: 11/02/12 08:25
Date Received: 11/03/12 08:45

Lab Sample ID: 240-17101-8
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		11/08/12 08:45	11/13/12 09:07	1

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Client Sample ID: 608 WWT
Date Collected: 11/02/12 08:30
Date Received: 11/03/12 08:45

Lab Sample ID: 240-17101-9
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	39		5.0		ng/L		11/08/12 08:45	11/13/12 08:50	10

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Client Sample ID: 608 WWT DUP
Date Collected: 11/02/12 08:35
Date Received: 11/03/12 08:45

Lab Sample ID: 240-17101-10
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	38		5.0		ng/L		11/08/12 08:45	11/13/12 08:54	10

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Client Sample ID: 608 WWT DISSOLVED — **Lab Sample ID: 240-17101-11**

Date Collected: 11/02/12 08:40 — **Matrix: Water**

Date Received: 11/03/12 08:45

Method: 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.2		1.0		ng/L		11/05/12 08:33	11/06/12 12:42	2

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Client Sample ID: OUTFALL 002 FB
Date Collected: 11/02/12 09:25
Date Received: 11/03/12 08:45

Lab Sample ID: 240-17101-12
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		11/08/12 08:45	11/13/12 09:11	1

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Client Sample ID: OUTFALL 002
Date Collected: 11/02/12 09:30
Date Received: 11/03/12 08:45

Lab Sample ID: 240-17101-13
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.4		0.50		ng/L		11/08/12 08:45	11/13/12 09:42	1

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Client Sample ID: OUTFALL 002 DUP
Date Collected: 11/02/12 09:35
Date Received: 11/03/12 08:45

Lab Sample ID: 240-17101-14
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.3		0.50		ng/L		11/08/12 08:45	11/13/12 09:56	1

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Client Sample ID: TRIP BLANK
Date Collected: 11/02/12 00:00
Date Received: 11/03/12 08:45

Lab Sample ID: 240-17101-15
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		11/08/12 08:45	11/13/12 09:17	1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 240-63749/1-A
Matrix: Water
Analysis Batch: 64023

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63749

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		11/05/12 08:33	11/06/12 08:07	1

Lab Sample ID: LCS 240-63749/2-A
Matrix: Water
Analysis Batch: 64023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63749

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.00	4.27		ng/L		85	77 - 123		

Lab Sample ID: MB 240-64236/1-A
Matrix: Water
Analysis Batch: 64803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64236

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		11/08/12 08:45	11/13/12 08:09	1

Lab Sample ID: LCS 240-64236/2-A
Matrix: Water
Analysis Batch: 64803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64236

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.00	4.48		ng/L		90	77 - 123		

Lab Sample ID: 240-17101-13 MS
Matrix: Water
Analysis Batch: 64803

Client Sample ID: OUTFALL 002
Prep Type: Total/NA
Prep Batch: 64236

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	6.4		5.00	9.90	F	ng/L		70	71 - 125		

Lab Sample ID: 240-17101-13 MSD
Matrix: Water
Analysis Batch: 64803

Client Sample ID: OUTFALL 002
Prep Type: Total/NA
Prep Batch: 64236

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	6.4		5.00	9.76	F	ng/L		67	71 - 125	1	24

Lab Sample ID: PB 240-63847/1-B PB
Matrix: Water
Analysis Batch: 64023

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 63749

Analyte	PB Result	PB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		11/05/12 08:33	11/06/12 08:44	1

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-64079/1-A
Matrix: Water
Analysis Batch: 64499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64079

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20		ug/L		11/07/12 14:35	11/09/12 10:34	1

Lab Sample ID: LCS 240-64079/2-A
Matrix: Water
Analysis Batch: 64499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64079

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.00	4.31		ug/L		86	81 - 123		

Lab Sample ID: MB 240-65839/1-A
Matrix: Water
Analysis Batch: 65963

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65839

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20		ug/L		11/20/12 19:00	11/21/12 11:34	1

Lab Sample ID: LCS 240-65839/2-A
Matrix: Water
Analysis Batch: 65963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65839

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.00	5.09		ug/L		102	81 - 123		

Metals

Prep Batch: 63749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-17101-11	608 WWT DISSOLVED	Dissolved	Water	1631E	
LCS 240-63749/2-A	Lab Control Sample	Total/NA	Water	1631E	
MB 240-63749/1-A	Method Blank	Total/NA	Water	1631E	
PB 240-63847/1-B PB	Method Blank	Dissolved	Water	1631E	

Analysis Batch: 64023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-17101-11	608 WWT DISSOLVED	Dissolved	Water	1631E	63749
LCS 240-63749/2-A	Lab Control Sample	Total/NA	Water	1631E	63749
MB 240-63749/1-A	Method Blank	Total/NA	Water	1631E	63749
PB 240-63847/1-B PB	Method Blank	Dissolved	Water	1631E	63749

Prep Batch: 64079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-17101-2	601(8)WWT TOT	Total/NA	Water	7470A	
240-17101-3	601(8)WWT TOT DUP	Total/NA	Water	7470A	
LCS 240-64079/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-64079/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 64236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-17101-1	601(8)WWT	Total/NA	Water	1631E	
240-17101-4	601(7)WWT	Total/NA	Water	1631E	
240-17101-6	RI FB	Total/NA	Water	1631E	
240-17101-7	RI	Total/NA	Water	1631E	
240-17101-8	608 WWT FB	Total/NA	Water	1631E	
240-17101-9	608 WWT	Total/NA	Water	1631E	
240-17101-10	608 WWT DUP	Total/NA	Water	1631E	
240-17101-12	OUTFALL 002 FB	Total/NA	Water	1631E	
240-17101-13	OUTFALL 002	Total/NA	Water	1631E	
240-17101-13 MS	OUTFALL 002	Total/NA	Water	1631E	
240-17101-13 MSD	OUTFALL 002	Total/NA	Water	1631E	
240-17101-14	OUTFALL 002 DUP	Total/NA	Water	1631E	
240-17101-15	TRIP BLANK	Total/NA	Water	1631E	
LCS 240-64236/2-A	Lab Control Sample	Total/NA	Water	1631E	
MB 240-64236/1-A	Method Blank	Total/NA	Water	1631E	

Analysis Batch: 64499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-17101-2	601(8)WWT TOT	Total/NA	Water	7470A	64079
240-17101-3	601(8)WWT TOT DUP	Total/NA	Water	7470A	64079
LCS 240-64079/2-A	Lab Control Sample	Total/NA	Water	7470A	64079
MB 240-64079/1-A	Method Blank	Total/NA	Water	7470A	64079

Analysis Batch: 64803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-17101-1	601(8)WWT	Total/NA	Water	1631E	64236
240-17101-4	601(7)WWT	Total/NA	Water	1631E	64236
240-17101-6	RI FB	Total/NA	Water	1631E	64236
240-17101-7	RI	Total/NA	Water	1631E	64236
240-17101-8	608 WWT FB	Total/NA	Water	1631E	64236

Metals (Continued)

Analysis Batch: 64803 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-17101-9	608 WWT	Total/NA	Water	1631E	64236
240-17101-10	608 WWT DUP	Total/NA	Water	1631E	64236
240-17101-12	OUTFALL 002 FB	Total/NA	Water	1631E	64236
240-17101-13	OUTFALL 002	Total/NA	Water	1631E	64236
240-17101-13 MS	OUTFALL 002	Total/NA	Water	1631E	64236
240-17101-13 MSD	OUTFALL 002	Total/NA	Water	1631E	64236
240-17101-14	OUTFALL 002 DUP	Total/NA	Water	1631E	64236
240-17101-15	TRIP BLANK	Total/NA	Water	1631E	64236
LCS 240-64236/2-A	Lab Control Sample	Total/NA	Water	1631E	64236
MB 240-64236/1-A	Method Blank	Total/NA	Water	1631E	64236

Prep Batch: 65839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-17101-5	601(7)WWT TOT	Total/NA	Water	7470A	
LCS 240-65839/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-65839/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 65963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-17101-5	601(7)WWT TOT	Total/NA	Water	7470A	65839
LCS 240-65839/2-A	Lab Control Sample	Total/NA	Water	7470A	65839
MB 240-65839/1-A	Method Blank	Total/NA	Water	7470A	65839

Client Sample ID: 601(8)WWT

Lab Sample ID: 240-17101-1

Date Collected: 11/01/12 17:40

Matrix: Water

Date Received: 11/03/12 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			64236	11/08/12 08:45	AS	TAL NC
Total/NA	Analysis	1631E		200000	64803	11/13/12 08:41	AS	TAL NC

Client Sample ID: 601(8)WWT TOT

Lab Sample ID: 240-17101-2

Date Collected: 11/01/12 17:50

Matrix: Water

Date Received: 11/03/12 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			64079	11/07/12 14:35	LM	TAL NC
Total/NA	Analysis	7470A		1	64499	11/09/12 10:42	DH	TAL NC

Client Sample ID: 601(8)WWT TOT DUP

Lab Sample ID: 240-17101-3

Date Collected: 11/01/12 17:45

Matrix: Water

Date Received: 11/03/12 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			64079	11/07/12 14:35	LM	TAL NC
Total/NA	Analysis	7470A		1	64499	11/09/12 10:44	DH	TAL NC

Client Sample ID: 601(7)WWT

Lab Sample ID: 240-17101-4

Date Collected: 11/01/12 18:00

Matrix: Water

Date Received: 11/03/12 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			64236	11/08/12 08:45	AS	TAL NC
Total/NA	Analysis	1631E		200000	64803	11/13/12 08:46	AS	TAL NC

Client Sample ID: 601(7)WWT TOT

Lab Sample ID: 240-17101-5

Date Collected: 11/01/12 18:05

Matrix: Water

Date Received: 11/03/12 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			65839	11/20/12 19:00	SG	TAL NC
Total/NA	Analysis	7470A		100	65963	11/21/12 13:01	DH	TAL NC

Client Sample ID: RI FB

Lab Sample ID: 240-17101-6

Date Collected: 11/01/12 18:15

Matrix: Water

Date Received: 11/03/12 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			64236	11/08/12 08:45	AS	TAL NC
Total/NA	Analysis	1631E		1	64803	11/13/12 09:25	AS	TAL NC

Client Sample ID: RI

Lab Sample ID: 240-17101-7

Date Collected: 11/01/12 18:20

Matrix: Water

Date Received: 11/03/12 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			64236	11/08/12 08:45	AS	TAL NC
Total/NA	Analysis	1631E		1	64803	11/13/12 09:37	AS	TAL NC

Client Sample ID: 608 WWT FB

Lab Sample ID: 240-17101-8

Date Collected: 11/02/12 08:25

Matrix: Water

Date Received: 11/03/12 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			64236	11/08/12 08:45	AS	TAL NC
Total/NA	Analysis	1631E		1	64803	11/13/12 09:07	AS	TAL NC

Client Sample ID: 608 WWT

Lab Sample ID: 240-17101-9

Date Collected: 11/02/12 08:30

Matrix: Water

Date Received: 11/03/12 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			64236	11/08/12 08:45	AS	TAL NC
Total/NA	Analysis	1631E		10	64803	11/13/12 08:50	AS	TAL NC

Client Sample ID: 608 WWT DUP

Lab Sample ID: 240-17101-10

Date Collected: 11/02/12 08:35

Matrix: Water

Date Received: 11/03/12 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			64236	11/08/12 08:45	AS	TAL NC
Total/NA	Analysis	1631E		10	64803	11/13/12 08:54	AS	TAL NC

Client Sample ID: 608 WWT DISSOLVED

Lab Sample ID: 240-17101-11

Date Collected: 11/02/12 08:40

Matrix: Water

Date Received: 11/03/12 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	1631E			63749	11/05/12 08:33	AS	TAL NC
Dissolved	Analysis	1631E		2	64023	11/06/12 12:42	AS	TAL NC

Client Sample ID: OUTFALL 002 FB

Lab Sample ID: 240-17101-12

Date Collected: 11/02/12 09:25

Matrix: Water

Date Received: 11/03/12 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			64236	11/08/12 08:45	AS	TAL NC
Total/NA	Analysis	1631E		1	64803	11/13/12 09:11	AS	TAL NC

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Client Sample ID: OUTFALL 002

Lab Sample ID: 240-17101-13

Date Collected: 11/02/12 09:30
Matrix: Water
Date Received: 11/03/12 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			64236	11/08/12 08:45	AS	TAL NC
Total/NA	Analysis	1631E		1	64803	11/13/12 09:42	AS	TAL NC

Client Sample ID: OUTFALL 002 DUP

Lab Sample ID: 240-17101-14

Date Collected: 11/02/12 09:35
Matrix: Water
Date Received: 11/03/12 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			64236	11/08/12 08:45	AS	TAL NC
Total/NA	Analysis	1631E		1	64803	11/13/12 09:56	AS	TAL NC

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-17101-15

Date Collected: 11/02/12 00:00
Matrix: Water
Date Received: 11/03/12 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			64236	11/08/12 08:45	AS	TAL NC
Total/NA	Analysis	1631E		1	64803	11/13/12 09:17	AS	TAL NC

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Duke Energy Corporation
Project/Site: Duke MF LLHg 2012 - J12110130

TestAmerica Job ID: 240-17101-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAC	9	01144CA	06-30-13
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAC	4	E87225	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAC	5	200004	07-31-13
Kansas	NELAC	7	E-10336	01-31-13
L-A-B	DoD ELAP		L2315	02-28-13
Minnesota	NELAC	5	039-999-348	12-31-12
Nevada	State Program	9	OH-000482008A	07-31-13
New Jersey	NELAC	2	OH001	06-30-13
New York	NELAC	2	10975	04-01-13
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAC	3	68-00340	08-31-13
Texas	NELAC	6		08-03-13
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAC	3	460175	09-14-13
Washington	State Program	10	C971	01-12-13
West Virginia DEP	State Program	3	210	12-31-12
Wisconsin	State Program	5	999518190	08-31-13

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: N. CANTON, OHIO

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: DUKE ENERGY	Client Project Manager: M. WAGNER (URS)	Site Contact: J. ALTEN (URS)	Lab Contact:	COC No:
Address: MIAMI FORT STATION	Telephone: 513 651-3440	Telephone: 513 330-4270	Telephone:	1 of 2 COCs
City/State/Zip: N. BEND, OHIO	Email: mike.wagner@urs.com	Analysis Turnaround Time	Analyses	
Phone:		TAT if different from Standard: ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		
Project Name: DUKE MF LLHg 2012	Method of Shipment/Carrier:			
Project Number: 14950516	Shipping/Tracking No:			
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite (C) or Grab (G)	LLHg	TOTAL Hg	Sample Specific Notes / Special Instructions:
*601(8) WWT	11-1-12	1740		X									4		N	G	X		
601(8) WWT TOT		1750		X					1									X	
601(8) WWT TOT DUP		1745		X					1									X	
601(7) WWT		1800		X									4				X		
601(7) WWT TOT		1805		X					1									X	
RI FB ⊛		1815		X					4				2				X		
RI		1820		X									4				X		

Cincinnati

210501

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

*potentially elevated Hg

⊛ ONLY 1 VIAL FILLED WITHOUT HEADSPACE

Relinquished by:	Company: URS CORP	Date/Time: 11-2-12 / 1115	Received by:	Company: Test America	Date/Time: 11-2-12 / 11:15
Relinquished by:	Company: TestAmerica	Date/Time: 11-2-12 / 1230	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 11/3/12 0845

TAL-0018 (1008)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: N. CANTON, 0410
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Duke Energy	Client Project Manager: Mike Wagner (URS)	Site Contact: J. Alten (URS)	Lab Contact:	COC No:
Address: Miami Fort Station	Telephone: 513 651-3440	Telephone: 513 330-4270	Telephone:	2 of 2 COCs
City/State/Zip: N. Bend OH	Email: Mike.Wagner@URS.com	Analysis Turnaround Time (in calendar days)	Analyses	
Phone:		TAT if different from below: Standard		
Project Name: Duke MF LLHg 2012	Method of Shipment/Carrier:	☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		
Project Number: 14950516	Shipping/Tracking No:			
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite (C) or Grab (G)	LLHg	DISSOLVED LLHg	Sample Specific Notes / Special Instructions:
608 WWT FB	11-2-12	0825		X									2		N	G	X		
608 WWT		0830		X									4				X		
608 WWT Dup		0835		X									4				X		
608 WWT DISSOLVED		0840		X									4					X	
OUTFALL 002 FB		0925		X									2				X		
OUTFALL 002		0930		X									4				X		
OUTFALL 002 Dup		0935		X									4				X		
TRIP BLANK	—	—		X									2		—		X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:
~~Potentially elevated Hg~~

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	URS Corp	11-2-12 / 1115		Test America	11-2-12 / 11:15
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Test America	11-2-12 / 2330			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TA	11/3/12 0845

TAL-0018 (1008)

TestAmerica Canton Sample Receipt Form/Narrative Login # : 17101

Client Duke Energy Site Name MF By: (Signature)

Cooler Received on 11/3/12 Opened on 11-5-12

FedEx: 1st Grd Exp UPS FAS (Stetson) Client Drop Off TestAmerica Courier Other

TestAmerica Cooler # 5206 Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water (None)

1. Cooler temperature upon receipt

IR GUN# 1	(CF –2 °C) Observed Sample Temp. 14.2°C	Corrected Sample Temp. 14.2°C	☐ Multiple on Back
IR GUN# 4G	(CF 0 °C) Observed Sample Temp. ____°C	Corrected Sample Temp. ____°C	
IR GUN# 5G	(CF –2 °C) Observed Sample Temp. ____°C	Corrected Sample Temp. ____°C	
IR GUN# 8	(CF 0 °C) Observed Sample Temp. ____°C	Corrected Sample Temp. ____°C	

2. Were custody seals on the outside of the cooler(s)?	If Yes Quantity 1	(Yes) No
-Were custody seals on the outside of the cooler(s) signed & dated?		(Yes) No NA
-Were custody seals on the bottle(s)?		Yes (No)
3. Shippers' packing slip attached to the cooler(s)?		(Yes) No
4. Did custody papers accompany the sample(s)?		(Yes) No
5. Were the custody papers relinquished & signed in the appropriate place?		(Yes) No
6. Did all bottles arrive in good condition (Unbroken)?		(Yes) No
7. Could all bottle labels be reconciled with the COC?		(Yes) No
8. Were correct bottle(s) used for the test(s) indicated?		(Yes) No
9. Sufficient quantity received to perform indicated analyses?		(Yes) No
10. Were sample(s) at the correct pH upon receipt?		(Yes) No NA
11. Were VOAs on the COC?		Yes (No)
12. Were air bubbles >6 mm in any VOA vials?		Yes No (NA)
13. Was a trip blank present in the cooler(s)?		(Yes) No

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

high temps - OK - LL Hg + metals

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.

Sample(s) ____ were received in a broken container.

Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 031512-HNO3; Sulfuric Acid Lot# 041911-H2SO4; Sodium Hydroxide Lot# 121809 - NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
6018 TOT	<2	11-5-12	MJ
6018 TOT DUP	<2	1	1
6017 TOT	<2		

Cooler #	Observed Sample Temp. °C	Corrected Sample Temp. °C	IR #	Coolant